

223316.ST25
SEQUENCE LISTING

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AHMAD, Imran

<120> ANTI-APOTOPIC GENE SCC-S2 AND DIAGNOSTIC AND THERAPEUTIC USES THEREOF

<130> 223316

<150> US 60/264,062
<151> 2001-01-26

<150> PCT/US02/02212
<151> 2002-01-28

<160> 25

<170> PatentIn version 3.2

<210> 1
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<212> DNA
<213> Homo sapiens

<220>
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<223> SCC-S2

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Lys Lys Ile Leu Gly Lys Met Val Ser Lys Ser Ile Ala Thr Thr Leu
 20 25 30

Ile Asp Asp Thr Ser Ser Glu Val Leu Asp Glu Leu Tyr Arg Val Thr
 35 40 45

Arg Glu Tyr Thr Gln Asn Lys Lys Glu Ala Glu Lys Lys Ile Lys Asn
 50 55 60

Leu Ile Lys Thr Val Ile Lys Leu Ala Ile Leu Tyr Arg Asn Asn Gln
 65 70 75 80

Phe Asn Gln Asp Glu Leu Ala Leu Met Glu Lys Phe Lys Lys Lys Val
 85 90 95

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 His Gln Leu Ala Met Thr Val Val Ser Phe His Gln Val Asp Tyr Thr
 100 105 110
 Phe Asp Arg Asn Val Leu Ser Arg Leu Leu Asn Glu Cys Arg Glu Met
 115 120 125
 Leu His Gln Ile Ile Gln Arg His Leu Thr Ala Lys Ser His Gly Arg
 130 135 140
 Val Asn Asn Val Phe Asp His Phe Ser Asp Cys Glu Phe Leu Ala Ala
 145 150 155 160
 Leu Tyr Asn Pro Phe Gly Asn Phe Lys Pro His Leu Gln Lys Leu Cys
 165 170 175
 Asp Gly Ile Asn Lys Met Leu Asp Glu Glu Asn Ile
 180 185

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<400> 3

Asp Asp Thr Ser Ser Glu Val Leu Asp Glu Leu Tyr Arg Val Thr Arg
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 Glu Tyr Thr Gln Asn Lys Lys Glu Ala Glu Lys Ile Ile Lys Asn Leu
 20 25 30
 Ile Lys Thr Val Ile Lys Leu Ala Ile Leu Tyr Arg Asn Asn Gln Phe
 35 40 45
 Asn Gln Asp Glu Leu Ala Leu Met Glu Lys Phe Lys Lys Val His
 50 55 60
 Gln Leu
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<210> 4
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 <213> Mus musculus

<220>
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 <223> CASH Alpha/Beta - fragment

<400> 4

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Asn Asp Val Ser Ser Leu Val Phe Leu Thr Arg Ile Thr Arg Asp Tyr
1 5 10 15

Thr Gly Arg Gly Lys Ile Ala Lys Asp Lys Ser Phe Leu Asp Leu Val
20 25 30

Ile Glu Leu Glu Lys Leu Asn Leu Ile Ala Ser Asp Gln Leu Asn Leu
35 40 45

Leu Glu Lys Cys Leu Lys Asn Ile His Arg Ile
50 55

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<213> Homo sapiens

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1 5 10 15

Gly Lys Ile Ser Lys Glu Lys Ser Phe Leu Asp Leu Val Val Glu Leu
20 25 30

Glu Lys Leu Asn Leu Val Ala Pro Asp Gln Leu Asp Leu Leu Glu Lys
35 40 45

Cys Leu Lys Asn Ile His Arg Ile
50 55

<210> 6
<211> 56
<212> PRT
<213> Mus musculus

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<223> FLIP (L) - fragment

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Asn Asp Val Ser Ser Leu Val Phe Leu Thr Arg Asp Tyr Thr Gly Arg
1 5 10 15

Gly Lys Ile Ala Lys Asp Lys Ser Phe Leu Asp Leu Val Ile Glu Leu
20 25 30

Glu Lys Leu Asn Leu Ile Ala Ser Asp Gln Leu Asn Leu Leu Glu Lys
35 40 45

223316.ST25

Cys Leu Lys Asn Ile His Arg Ile
50 55

<210> 7
<211> 56
<212> PRT
<213> Homo sapiens

<220>
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<223> FLIP (L) - fragment

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Ser Asp Val Ser Ser Leu Ile Phe Leu Met Lys Asp Tyr Met Gly Arg
1 5 10 15

Gly Lys Ile Ser Lys Glu Lys Ser Phe Leu Asp Leu Val Val Glu Leu
20 25 30

Glu Lys Leu Asn Leu Val Ala Pro Asp Gln Leu Asp Leu Leu Glu Lys
35 40 45

Cys Leu Lys Asn Ile His Arg Ile
50 55

<210> 8
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<212> PRT
<213> Mus musculus

<220>
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<223> FLICE (Casp8) - fragment

<400> 8

Leu Glu Leu Arg Ser Phe Lys Phe Leu Leu Asn Asn Glu Ile Pro Lys
1 5 10 15

Cys Lys Leu Glu Asp Asp Leu Ser Leu Leu Glu Ile Phe Val Glu Met
20 25 30

Glu Lys Arg Thr Met Leu Ala Glu Asn Asn Leu Glu Thr Leu Lys Ser
35 40 45

Ile Cys Asp Gln Val Asn Lys Ser
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<210> 9
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<213> Homo sapiens

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<220>
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<223> FLICE (Casp8) - fragment

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Cys  Lys  Leu  Asp  Asp  Asp  Met  Asn  Leu  Leu  Asp  Ile  Phe  Ile  Glu  Met
20      25      30
Glu  Lys  Arg  Val  Ile  Leu  Gly  Glu  Gly  Lys  Leu  Asp  Ile  Leu  Lys  Arg
35      40      45
Val  Cys  Ala  Gln  Ile  Asn  Lys  Ser
50      55

<210>  10
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<213>  Homo sapiens

<220>
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<223> SCC-S2 - fragment

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Gln  Asn  Lys  Lys  Glu  Ala  Glu  Lys  Ile  Ile  Lys  Asn  Leu  Ile  Lys  Thr
20      25      30
Val  Ile  Lys  Leu  Ala  Ile  Leu  Tyr  Arg  Asn  Asn  Gln  Phe  Asn  Gln  Asp
35      40      45
Glu  Leu  Ala  Leu  Met
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<210>  11
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<212>  PRT
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<220>
<221> MISC_FEATURE
<223> Poliovirus 1 VP1 - fragment

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Thr  Gln  Gln  Ile  Ser  Asp  Lys  Ile  Thr  Glu  Leu  Thr  Asn  Met  Val  Thr
1      5      10      15

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223316.ST25
 Ser Thr Ile Thr Glu Lys Leu Leu Lys Asn Leu Ile Lys Ile Ile Ser
 20 25 30

Ser Leu Val Ile Ile Thr Arg Asn Tyr Glu Asp Thr Thr Thr Val Leu
 35 40 45

Ala Thr Leu
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<210> 12
 <211> 51
 <212> PRT
 <213> Homo sapiens

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 <221> MISC_FEATURE
 <223> Poliovirus 2 Polyprotein - fragment

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Thr Gln Gln Ile Gly Asp Lys Val Ser Glu Leu Thr Ser Met Val Thr
 1 5 10 15

Ser Thr Ile Thr Glu Lys Leu Leu Lys Asn Leu Ile Lys Ile Ile Ser
 20 25 30

Ser Leu Val Ile Ile Thr Arg Asn Tyr Glu Asp Thr Thr Thr Val Leu
 35 40 45

Ala Thr Leu
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<210> 13
 <211> 51
 <212> PRT
 <213> Homo sapiens

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 <223> Poliovirus 3 Polyprotein - fragment

<400> 13

Thr Gln Gln Ile Gly Asp Lys Ile Ser Glu Leu Thr Ser Met Val Thr
 1 5 10 15

Ser Thr Ile Thr Glu Lys Leu Leu Lys Asn Leu Ile Lys Ile Ile Ser
 20 25 30

Ser Leu Val Ile Ile Thr Arg Asn Tyr Glu Asp Thr Thr Thr Val Leu
 35 40 45

Ala Thr Leu
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<210> 14
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 <213> Homo sapiens

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 <223> Poliovirus 1 P2-3b - fragment

<400> 14

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 1 5 10 15

Ser Thr Ile Thr Glu Lys Leu Leu Lys Asn Leu Ile Lys Ile Ile Ser
 20 25 30

Ser Leu Val Ile Ile Thr Arg Asn Tyr Glu Asp Thr Thr Thr Val Leu
 35 40 45

Ala Thr Leu
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<210> 15
 <211> 52
 <212> PRT
 <213> Homo sapiens

<220>
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 <223> SCC-S2 - fragment

<400> 15

Ser Ser Glu Val Leu Asp Glu Leu Tyr Arg Val Thr Arg Glu Tyr Thr
 1 5 10 15

Gln Asn Lys Lys Glu Ala Glu Lys Ile Ile Lys Asn Leu Ile Lys Thr
 20 25 30

Val Ile Lys Leu Ala Ile Leu Tyr Arg Asn Asn Gln Phe Asn Gln Asp
 35 40 45

Glu Leu Ala Leu
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<210> 16
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 <212> PRT
 <213> Vaccinia virus

<220>
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 <223> DNA Polymerase - fragment

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<400> 16

Ser Ser Asn Ser Lys Ser Val Pro Glu Arg Ile Asn Lys Gly Thr Ser
 1 5 10 15
 Glu Thr Arg Arg Asp Val Ser Lys Phe His Lys Asn Met Ile Lys Thr
 20 25 30
 Tyr Lys Thr Arg Leu Ser Glu Met Leu Ser Glu Gly Arg Met Asn Ser
 35 40 45
 Asn Gln Val Cys Ile
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 <212> PRT
 <213> Homo sapiens

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<400> 17

Thr Leu Ile Asp Asp Thr Ser Ser Glu Val Leu Asp Glu Leu Tyr Arg
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 Val Thr Arg Glu Tyr Thr Gln Asn Lys Lys Glu Ala Glu Lys Ile Ile
 20 25 30
 Lys Asn Leu Ile Lys Thr Val Ile Lys Leu
 35 40

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 <213> Canine adenovirus

<220>
 <221> MISC_FEATURE
 <223> DNA Pol - fragment

<400> 18

Thr Leu Ile Pro Asp Thr Arg Thr Thr Val Phe Pro Glu Trp Lys Cys
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 20 25 30
 Asp Lys Ser Lys Asn Gln Thr Met Arg Ser Ile Ala Lys Leu
 35 40 45

<210> 19

223316.ST25

<211> 54
 <212> PRT
 <213> Homo sapiens

<220>
 <221> MISC_FEATURE
 <223> SCC-S2 - fragment

<400> 19

Lys Lys Glu Ala Glu Lys Ile Ile Lys Asn Leu Ile Lys Thr Val Ile
 1 5 10 15

Lys Leu Ala Ile Leu Tyr Arg Asn Gln Phe Asn Gln Asp Glu Leu Ala
 20 25 30

Leu Met Glu Lys Phe Lys Lys Lys Val His Gln Leu Ala Met Thr Val
 35 40 45

Val Ser Phe His Gln Val
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 <212> PRT
 <213> Homo sapiens

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 <221> MISC_FEATURE
 <223> Alpha1 (E) - Catenin - fragment

<400> 20

Ala Lys Lys Ile Ala Glu Ala Gly Ser Arg Met Asp Lys Leu Gly Arg
 1 5 10 15

Thr Ile Ala Asp His Cys Pro Asp Ser Ala Cys Lys Gln Asp Leu Leu
 20 25 30

Ala Tyr Leu Gln Arg Ile Ala Leu Tyr Cys His Gln Leu Asn Ile Cys
 35 40 45

Ser Lys Val Lys Ala Glu Val
 50 55

<210> 21
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 <212> PRT
 <213> Homo sapiens

<220>
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 <223> Alpha2 (E) - Catenin - fragment

<400> 21

223316.ST25
 Ala Lys Lys Ile Ala Glu Ala Gly Ser Arg Met Asp Lys Leu Ala Arg
 1 5 10 15
 Ala Val Ala Asp Gln Cys Pro Asp Ser Ala Cys Lys Gln Asp Leu Leu
 20 25 30
 Ala Tyr Leu Gln Arg Ile Ala Leu Tyr Cys His Gln Leu Asn Ile Cys
 35 40 45
 Ser Lys Val Lys Ala Glu Val
 50 55

<210> 22
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 <212> PRT
 <213> Homo sapiens

<220>
 <221> MISC_FEATURE
 <223> Vinculin - fragment

<400> 22

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 20 25 30
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 35 40 45
 Ser Thr Val Lys Ala Ile Met
 50 55

<210> 23
 <211> 27
 <212> DNA
 <213> Artificial

<220>
 <223> Primer

<400> 23
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27

<210> 24
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 <212> DNA
 <213> Artificial

<220>
 <223> Primer

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57

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<210> 25
 <211> 17
 <212> PRT
 <213> Artificial

<220>
 <223> SCC-S2 Fragment

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Lys